

REFERENCE DRAWINGS / DOCUMENTS - Disegni / documenti di riferimento:

- OIL CENTRE - EQUIPMENT LAYOUT ZONE L IT-TPR-30-EPC1-130938_rev 05
- OIL CENTRE - GENERAL LAYOUT OF FIRE FIGHTING IT-TPR-30-EPC1-168310
- OIL CENTRE - DESIGN GENERAL OF FIRE FIGHTING IT-TPR-30-EPC1-168310
- PROJECT SPECIFICATION OF FIRE AND GAS DETECTION SYSTEM IT-TPR-00-EPC1-167107
- OIL CENTRE - TELECOM EQUIPMENT LAYOUT FOR ZONE L IT-TPR-30-EPC1-159116
- OIL CENTRE - DESIGN OF FIRE AND GAS DETECTION SYSTEM FOR ZONE L IT-TPR-30-EPC1-153220
- OIL CENTRE - FIRE AND GAS DEVICES LAYOUT FOR ZONE L IT-TPR-30-EPC1-153220

GENERAL NOTES - Note Generali:

- ALL COORDINATES ARE IN METERS.
- ALL DIMENSIONS AND ELEVATIONS ARE IN MILLIMETRES.
- ALL DIMENSIONS AND ELEVATIONS ARE IN MILLIMETRES.
- ALL DIMENSIONS AND ELEVATIONS ARE IN MILLIMETRES.
- VOTING LOGIC OF GAS DETECTORS THAT ARE CONNECTED WITH ESD SYSTEM SHALL BE INDICATED IN THE DOC. IT-TPR-30-EPC1-167205 OIL CENTRE - CAUSE AND EFFECT MATRIX FOR FIRE AND GAS DETECTION SYSTEM.
- LA LOGICA DI VOTO DEI RILEVATORI DI GAS CONNESSI AL SISTEMA ESD VERRA' INDICATA NEL DOCUMENTO "Centro Oli - Matrice causa effetti del sistema di ril. incendi e gas"- IT-TPR-30-EPC1-167205.
- FIRE AND GAS ACOUSTICAL ALARM SHALL BE DONE BY PUBLIC ADDRESS SYSTEM AND ALONG WITH VISUAL ALARMS DEDICATED FOR NOISY AREAS ARE REPRESENTED ON RELATED TELECOM LAYOUTS. REFER TO REFERENCE DRAWING TABLE.
- Gli allarmi acustici di fuoco e gas dovranno essere effettuati tramite il sistema di allarme visivi per le zone ad alta rumorosità sono rappresentati nei relativi disegni dei dispositivi di telecomunicazione. Fare riferimento alla tabella dei disegni di riferimento E. FIRE AND GAS DETECTORS SHALL NOT BE LOCATED IN THE MIDDLE OF INGRESS/EGRESS OF THE ESCAPE WAYS.
- I rilevatori incendio e gas non vanno localizzati in mezzo ad accessi/uscite delle vie di fuga.
- FIRE AND GAS DEVICE TAG NUMBERS ARE SHOWN ON RELATED STRUM LAYOUTS. REFER TO REFERENCE DRAWING TABLE.
- I numeri identificativi degli apparecchi del sistema di rilevazione incendio e gas sono mostrati sui relativi layouts di strumentazione (vedere tabella dei disegni di riferimento).
- THE POSITION OF FIRE AND GAS DEVICES IS RECOGNIZABLE BY THE CENTRE OF THE SYMBOL AND IS APPROXIMATE.
- LA POSIZIONE DEI RILEVATORI DI INCENDIO E GAS E' RECONOSCIBILE DAL CENTRO DEL SIMBOLO ED E' INDICATIVA.
- La posizione finale e precisa e' rappresentata sul modello 3D dell'impianto.
- THE MAXIMUM TRAVEL DISTANCE TO REACH ONE MAC IN EACH UNIT DO NOT EXCEED 20 M.
- La distanza massima del percorso per raggiungere un MAC in ogni unit non e' superiore a 20 m.
- FOR FUSIBLE PLUG NUMBER AND ARRANGEMENT REFER TO PLANT 3D MODEL AND PID IT-TPR-30-EPC1-168376/168377/168378.
- I Per la disposizione dei tappi fusibili e la quantita' fare riferimento al modello 3d e ai documenti IT-TPR-30-EPC1-168376/168377/168378.
- GAS DETECTORS SHALL BE POSITIONED DOWNWIND IN THE PREVAILING WIND DIRECTION
- I rilevatori di gas dovranno essere messi sottovento nella direzione prevalente del vento

NOTES - Note

- MOST CRITICAL GAS PRESENT IN THE RELATED STREAM.
- Gas piu' critico presente nella relativa miscela.
- NUMBER, LOCATION AND DISTANCE BETWEEN TRANSMITTER AND RECEIVER IS REPRESENTED ON RELATED STRUM LAYOUTS. REFER TO REFERENCE DRAWING TABLE.
- La quantita', la posizione e la distanza tra il trasmettitore e il ricevitore sono rappresentate sul relativo disegno di strumentazione. Riferirsi alla tabella dei disegni di riferimento.

HOLD - Punti in sospeso

EQUIPMENT LIST - Lista apparecchiature

ITEM N°	EQUIPMENT DESCRIPTION	ITEM N°	EQUIPMENT DESCRIPTION
30-EC-4901	HP / WET FLARE K.O. DRUM HEATER	30-VZ-4901	HP / WET FLARE K.O. DRUM
30-EC-4902	LP / ACID FLARE K.O. DRUM HEATER	30-VZ-4902	HP / COLD FLARE K.O. DRUM
30-FH-4901	HP / WET FLARE STACK	30-VZ-4903	LP / ACID FLARE K.O. DRUM
30-FH-4902	HP / COLD FLARE STACK	30-KE-3001 A/B	FGRS LIQUID RING COMPRESSOR
30-FL-4903	LP / ACID FLARE STACK	30-EA-3004 A/B	FGRS OUTLET AIR COOLERS
30-HE-4901	HP / COLD FLARE K.O. DRUM HEATER	30-VZ-3004 A/B	FGRS LIQUID RING COMPRESSOR OUTLET GAS/LIQUID SEPARATORS (FGRS 3 - PHASE SEPARATOR)
30-PA-4901A/B	HP / WET FLARE K.O. DRUM PUMPS	30-EA-3003 A/B	FGRS LIQUID RING COMPRESSOR OUTLET GAS/LIQUID SEPARATORS (FGRS AIR COOLERS)
30-PA-4902A/B	LP / ACID FLARE K.O. DRUM PUMPS	30-FL-4904	ENCLOSED GROUND FLARE
30-PS-4404	FLARE AREA CLOSED DRAIN UNLOADING PUMP		
30-UZ-4901	HP / WET FLARE PACKAGE		
30-UZ-4902	HP / COLD FLARE PACKAGE		
30-UZ-4903	LP / ACID FLARE PACKAGE		
30-VZ-4405	FLARE AREA CLOSED DRAIN DRUM		

TABLE 1 - Tabella 1
DETAILS OF FLAME DETECTORS - Dettagli dei rilevatori di fiamma

NOTE	EQUIPMENT TAG	EQUIPMENT / DETECTION AREA	Dispositivo/Area protetta
NOTE 9	30-PA-4901A/B	HP/WET FLARE K.O. DRUM PUMPS	
NOTE 12	30-PA-4902A/B	LP/ACID FLARE K.O. DRUM PUMPS	
NOTE 13	30-UZ-3001	FGRS package (30-EA-3003 A/B, 30-VZ-3004 A/B, 30-KE-3001 A/B)	
NOTE 14	30-EA-3004A/B	FGRS outlet aircoolers	

TABLE 2 - Tabella 2
DETAILS OF GAS DETECTORS - Dettagli dei rilevatori di gas

NOTE	EQUIPMENT TAG	EQUIPMENT / DETECTION AREA	REFERENCE LEVEL	HT. FROM REF. LEVEL	REFERENCE FLUID
NOTE 3	30-VZ-4405	CLOSED DRAIN DRUM INSIDE PIT	PIT GROUND LEVEL	300mm TO 450mm	Propane
NOTE 4		BOUNDARY AREA	EL. 100.200	500mm TO 750mm (OUTSIDE SAND AREA) (Fuori dall'area di sabbia)	H2S
NOTE 5	30-VZ-4902	HP / COLD FLARE K.O. DRUM	EL. 100.200	AT THE TOP OF THE VESSEL (Sopra il serbatoio)	Propane
NOTE 6	30-VZ-4901	HP / WET FLARE K.O. DRUM	EL. 100.200	AT THE TOP OF THE VESSEL (Sopra il serbatoio)	Propane
NOTE 7	30-PA-4901A/B	HP/WET FLARE K.O. DRUM PUMPS SEAL	EL. 100.200	300mm TO 450mm	Propane
NOTE 8	30-PA-4902A/B	LP/ACID FLARE K.O. DRUM PUMPS SEAL	EL. 100.200	300mm TO 450mm	Propane
NOTE 10	30-VZ-4903	LP / ACID FLARE K.O. DRUM	EL. 100.200	AT THE TOP OF THE VESSEL (Sopra il serbatoio)	Propane
NOTE 11	30-VZ-4405	CLOSED DRAIN DRUM INSIDE PIT	PIT GROUND LEVEL	500mm TO 750mm	H2S
NOTE 15	30-UZ-3001	FGRS package (30-EA-3003 A/B, 30-VZ-3004 A/B, 30-KE-3001 A/B)	EL. 100.150	500	H2S
NOTE 16	30-EA-3004A/B	FGRS outlet aircoolers	EL. 114.150	500	H2S
NOTE 17	30-FL-4904	Enclosed Ground Flare	EL. 100.150	500	H2S
NOTE 18	30-UZ-3001	FGRS package (30-EA-3003 A/B, 30-VZ-3004 A/B, 30-KE-3001 A/B)	EL. 100.150	No more than 300mm from FGRS package (30-UZ-3001) ceiling	Methane
NOTE 19	30-EA-3004A/B	FGRS package (30-EA-3003 A/B, 30-VZ-3004 A/B, 30-KE-3001 A/B)	EL. 100.150	On top of equipment	Methane
NOTE 20	30-FL-4904	Enclosed Ground Flare	EL. 100.150	500	Methane

TABLE 3 - Tabella 3
LIST OF EQUIPMENT PROVIDED WITH DELUGE SPRAY SYSTEM

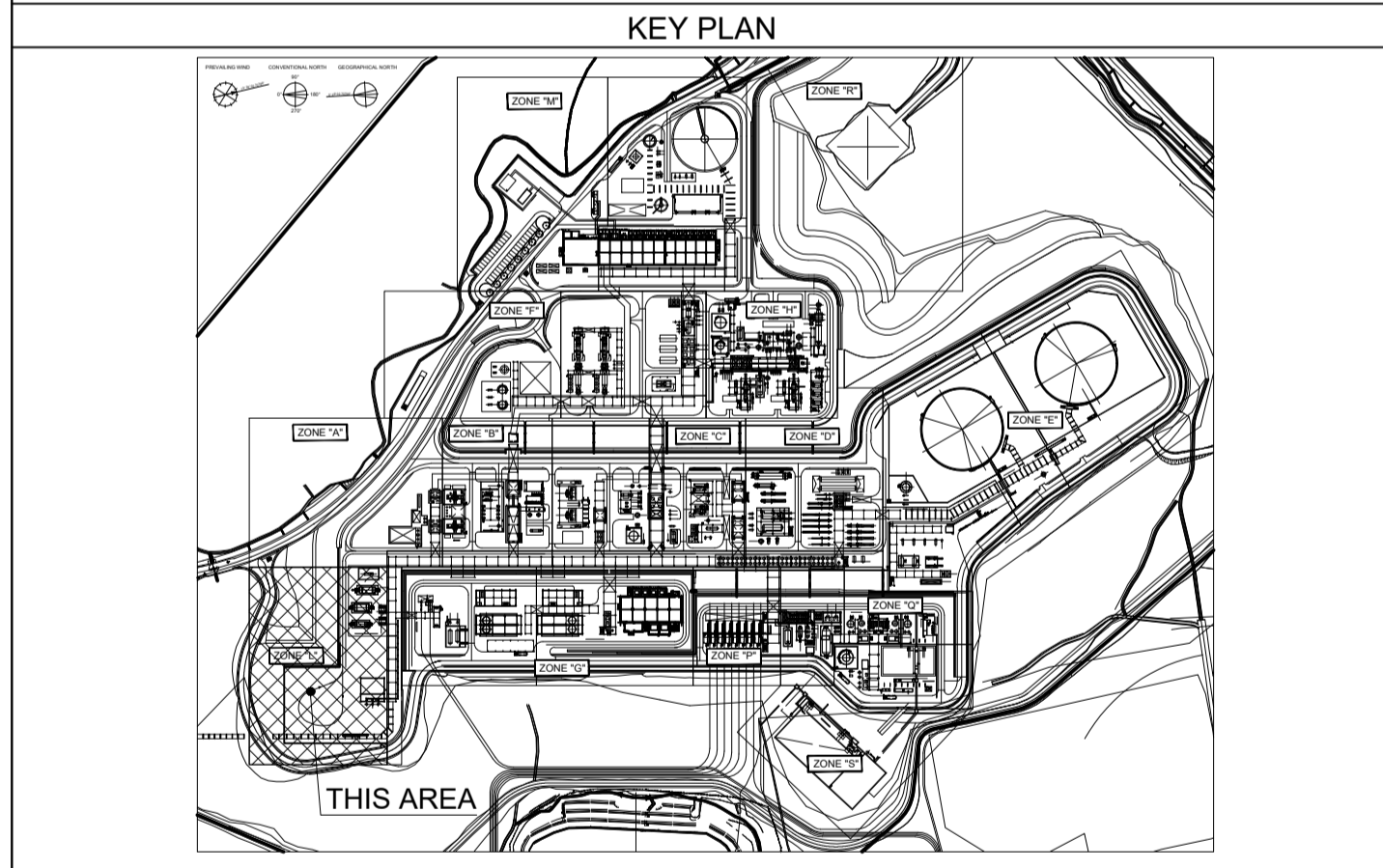
EQUIPMENT TAG	EQUIPMENT / DETECTION AREA
40-VZ-4901	HP / WET FLARE K.O. DRUM
40-VZ-4902	HP / COLD FLARE K.O. DRUM
40-VZ-4903	LP / ACID FLARE K.O. DRUM
30-PA-4901A/B	HP / WET FLARE K.O. DRUM PUMPS
30-PA-4902A/B	LP / ACID FLARE K.O. DRUM PUMPS
30-KE-3001 A/B	FGRS COMPRESSOR
30-VZ-3004A/B	FGRS LIQUID RING COMPRESSOR OUTLET GAS/LIQUID SEPARATORS

LEGENDS AND SYMBOLS - Legende e simboli

SYMBOL	DESCRIPTION - Descrizione	QUANTITY
MAC	MANUAL ALARM CALL POINT	06
WD	DELUGE SYSTEM PUSH BUTTON - FIELD MANUAL ACTIVATION	02
OP	"OPERATOR AT SITE" SELECTOR SWITCH	-
HDC	LINEAR HEAT DETECTOR CABLE	-
FD	FLAME DETECTOR	12
H2S	GAS DETECTOR (TOXIC) H2S	35
H2	GAS DETECTOR (HYDROGEN) H2	-
F	GAS DETECTOR (FLAMMABLE) HC	21
SO2	GAS DETECTOR (SULPHUR DIOXIDE) SO2	-
LD	LIQUID HC LEAK DETECTOR	-
ASD	EARLY WARNING SMOKE DETECTION SYSTEM - ASPIRATING SMOKE DETECTOR	-
HD	HEAT DETECTOR	-
SD	SMOKE DETECTOR	-
GD	OPEN PATH GAS DETECTOR X=T TOXIC, X=F FLAMMABLE	NOTE 2
FP	FUSIBLE PLUG	NOTE 1
FH	FIRE ACOUSTIC ALARM (HORN)	01
TH	TOXIC ACOUSTIC ALARM (HORN)	01
B	FLASHING LIGHT B= BLUE TOXIC	01
R	FLASHING LIGHT R= RED FLAMMABLE / FIRE	01
T	TRAFFIC LIGHT	01

THIS DRAWING IS VALID ONLY FOR FIRE AND GAS DEVICES LOCATION

Questo disegno vale soltanto per il posizionamento dei rilevatori di fuoco e gas



Rev	Date	Status	Revision Memo	Issued by	Checked by	Approved by
06	26-Jul-2022	AFC	ACCEPTED FOR CONSTRUCTION (FGRS & EGF MODIFICATION)	A.TANGUENZA	F.DI PIETRO	D. CUSCUNA
05	23-Apr-2019	ASB	AS BUILT	M.RUPAREL	F.SCARIONI	F.MEZZINO
04	03-Jul-2015	AFC	COMPANY COMMENTS INCORPORATED	M.RUPAREL	F.SCARIONI	G.ZUCCARO
03	29-Sep-2014	AFC	COMPANY COMMENTS INCORPORATED	M.RUPAREL	F.SCARIONI	G.ZUCCARO
02	24-Feb-2014	IFC	COMPANY COMMENTS INCORPORATED	M.RUPAREL	F.SCARIONI	G.ZUCCARO
01	29-Oct-2013	IFC	COMPANY COMMENTS INCORPORATED	M.RUPAREL	F.SCARIONI	G.ZUCCARO
00	09-Apr-2013	IFC	FIRST ISSUE	M.RUPAREL	F.SCARIONI	G.ZUCCARO

TOTAL **TEMPA ROSSA** **ATI Tecnimont**

This Document is the property of TOTAL and shall not be disclosed to third parties or reproduced without permission of the owner. This document has been generated by an Electronic Document Management System. When printed it is considered as a for information only copy. The controlled copy is the screen version and it is the holder's responsibility that he/she holds the latest valid version.

OIL CENTRE LAYOUT OF FIRE AND GAS FOR ZONE L
Centro Oli
Disegno dei dispositivi di rilevazione incendi e gas per Zona L

Doc type: LAY Syst. / S-Syst.: 03 Discipline: SAF Electronic File name: IT-TPR-30-EPC1-167308_rev06.dwg
 COMPANY Document N°: IT-TPR-30-EPC1-167308 REV: 06 Scale: 1:300 Class: 2
 CONTRACTOR Document N°: TR01-SK-DA-T3L000003109 Format: A1 Folio: 1 of 1

This document is the property of TOTAL. Information contained herein shall not be used, copied, communicated or disclosed in whole or in part WITHOUT PRIOR WRITTEN AGREEMENT.

PLAN AT H.P.P. EL.100000 AND ABOVE

EXTRACT OF OIL CENTRE PLOT PLAN FOR "TRAFFIC LIGHT" LOCATION
Estratto planimetria Centro Oli per posizionamento semaforo